

Docket No.: M4065.0904/P904  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Chandra Mouli

Application No.: 10/602,716

Group Art Unit: 2811

Filed: June 25, 2003

Examiner: Colleen Ann Matthews

For: TAILORING GATE WORK-FUNCTION IN  
IMAGE SENSORS

Allowed: September 24, 2007

**SECOND REQUEST FOR ACKNOWLEDGEMENT OF REFERENCES CITED**

Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

Applicant's undersigned representatives gratefully acknowledge receipt of the Supplemental Notice of Allowability, dated November 5, 2007, including the information disclosure statement forms acknowledged by the Examiner. However, the Yagishita et al. article, Cite No. CD, was not acknowledged in the information disclosure statement form filed December 14, 2004. It is respectfully requested that the Examiner acknowledge the

reference and return the form so acknowledged to the undersigned attorneys. A copy of the Supplemental Notice of Allowability with the December 14, 2004 information disclosure statement form is attached.

Dated: November 16, 2007

Respectfully submitted,

By 

Thomas J. D'Amico  
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Attorneys for Applicant



## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/602,716

06/25/2003

Chandra Mouli

M4065.0904/P904

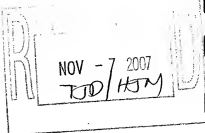
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11/05/2007

DICKSTEIN SHAPIRO LLP  
1825 EYE STREET, NW  
WASHINGTON, DC 20006



EXAMINER

MATTHEWS, COLLEEN ANN

ART UNIT

PAPER NUMBER

2811

MAIL DATE

DELIVERY MODE

11/05/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



NOV 14 2007

**Supplemental  
Notice of Allowability**

Application No.

10/602,716

Examiner

Colleen A. Matthews

Applicant(s)

MOULI, CHANDRA

Art Unit

2811

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--  
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to request received 10/17/2007 to consider IDS filed 09/26/2003, 12/14/2004 and 12/08/2006

2. ☒ The allowed claim(s) is/are 1-23,25-71 and 73-77.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some\* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.

(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO/SB/08),

Paper No./Mail Date See Continuation Sheet

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413),

Paper No./Mail Date \_\_\_\_\_.

7. ☐ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other \_\_\_\_\_



LYNNE GURLEY  
SUPERVISORY PATENT EXAMINER

ALL 284, FC 2802

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 09/26/2003, 12/14/2004 and 12/08/2006.



Approved for use through 07/31/2008. QX18 0051-0201  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OIA control number.

Substitute for form 1449A/B/PTO			<b>Complete If Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/602,716-Conf. #9955	
			Filing Date	June 25, 2003	
			First Named Inventor	Chandra Mouli	
			Art Unit	2811	
			Examiner Name	D. Kany Colleen matthews	
Sheet	1	of	1	Attorney Docket Number	M4065.0904/IP904

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>3</sup> (if known)	MM-DD-YYYY		
CAM	AA	2002/0190287	12/19/2002	Mann et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number-Kind Code <sup>4</sup> (if known)	MM-DD-YYYY		
CAM	BA	EP 0 798 785	10/01/1997		
CAM	BB	JP 01-232765	09/18/1989		X

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. <sup>7</sup>Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
CAM	CA	Kim, K.T. et al. - "Tungsten Silicide/Titanium Nitride Compound Gate," June 4, 1990, Symposium on VLSI Technology, Honolulu, June 4-7, 1990, New York, IEEE, US, pgs 115-118.		
CAM	CB	Long, Wei et al. - "Dual-Material Gate (DMG) Field Effect Transistor," May 1999, IEEE Transactions on Electron Devices, IEEE Inc. New York, US, pgs. 865-870.		
CAM	CC	Ponomarev, Y.V. et al. - "Gate-Workfunction Engineering Using Poly-(Si <sub>3</sub> Ge) for High-Performance 0.18 μm CMOS Technology," International Electron Devices Meeting 1997, IEDM Technical Digest, Washington, DC, Dec. 7-10, 1997, New York, NY, IEEE, US, 12/7/1997, pgs. 829-832.		
	CD	Yagishita, Atsushi et al. - "Dynamic Threshold Voltage Damascene Metal Gate MOSFET (DT-DMG-MOS) Technology for Very Low Voltage Operation of Under 0.7 V," IEEE Transactions on Electron Devices, IEEE Inc. New York, US, vol. 49, no. 3, March 2002, pgs. 422-428.		
CAM	CE	International Search Report dated 11/30/2004.		

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Colleen matthews	Date Considered	10/30/2007
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